

**ABSTRACT**

Apparatus for treating a condition of a subject is provided. An electrode device is adapted to be coupled to longitudinal nervous tissue of the subject, and a control unit is adapted to drive the electrode device to apply to the nervous tissue a current which is capable of inducing action potentials that propagate in the nervous tissue in a first direction, so as to treat the condition. The control unit is further adapted to suppress action potentials from propagating in the nervous tissue in a second direction opposite to the first direction.